

Work Element 400

April 2002

Data Systems Development

PBC Work Element Manager – David Han

OBJECTIVE: to define, develop, implement and evolve/enhance the requirements defined by NSSDC government staff relating to data storage, access and performance.

SIGNIFICANT EVENTS:

- Continued to support the operations staff with data ingest and archiving as needed.
- Maintained the DIONAS software suite and continued coding on enhancements to it.
- Continued planning of the system and processes to migrate NSSDC data to next generation of media.
- Coordinated with operations group for design and development of enhancements to DIONAS; coordinate software testing in an operational environment.
- Continued to interface with the Database Administrator about operational databases and next generation database designs.
- Continued to interface with NOST and coordinate the development of the next functional version of the NOST-supplied core software for DIONAS.
- Provided representation to the NSSDC Configuration Control Board.
- Delivered version 4.3.4 of DIONAS, which includes database mods for predecessors and successors.

Work Element 410

April 2002

Data Systems Development

PBC Work Element Manager – David Han

OBJECTIVE: to perform all the necessary, non-personal services required to manage contractor and sub-contractor staff supporting the Operations portion of the Space Science Data Operations Office (SSDOO). The contractor management team will meet with the NSSDC and SSDOO management staff to discuss significant events, updates, issues and concerns from the Operations Group. The Metrics Tracking System will be maintained current.

SIGNIFICANT EVENTS:

- Held Operations management staff meetings as needed.
- Held meetings with Operations staff as needed.
- Attended Government/Contractor meetings as scheduled.
- Provided representation to the NSSDC Configuration Control Board.
- Conducted Annual Performance Reviews.
- Reported monthly PBC Metrics for March 2002.

Work Element 421

April 2002

NSSDC Data Ingest

PBC Work Element Manager – David Han

OBJECTIVE: to ingest data into the NSSDC on-line, nearline and offline data archives.

SIGNIFICANT EVENTS:

- Continued to ingest IMAGE data, received 9 deliveries with a total of 407 files. All were ingested in a timely manner.
- Continued to ingest ISIS –1 data, received 20 deliveries with a total of 18997 files. All were ingested in a timely manner.
- Continued to ingest ISTP data, received 24 deliveries with a total of 1245 files. All were ingested in a timely manner.
- Continued to receive and archive data on physical media, a total of 2 TB on 589 CDs and 9 magneto-optical disks from the Clementine, Cluster 2, Dynamics Explorer 1, Dynamics Explorer 2, FAST, Geotail, IMAGE, IMP-J, IRAS, ISEE 3, ISIS 1, ISIS 2, Mars Global Surveyor, Polar, SAMPEX, Wind, and ISTP missions.
- Continued to advise the software development team with operational insights for design and development of enhancements to DIONAS; continued to support software testing in an operational environment.
- Continued to support the planning efforts for system and process design to migrate NSSDC data to the next generation of media.
- Continued data processing and ingest for the remaining data from NDADS, including ISIS, IRAS, Voyager and Mariner 10.

Work Element 422

April 2002

NSSDC Data Ingest

PBC Work Element Manager – David Han

OBJECTIVE: to ensure that the data bundles entrusted to NSSDC are reliably findable, retrievable and usable into the indefinite future.

SIGNIFICANT EVENTS:

- Environmental monitors were checked each workday. The values recorded were out of compliance on 10 days. The PBC Work Element Manager was duly notified in a timely manner.
- Security was maintained and security procedures followed for the archive storage areas; there were no breaches.
- 12 boxes were shipped out to off-site facilities at Iron Mountain and the Federal Records Center.
- Continued to advise the software development team with operational insights for design and development of enhancements of JIN; continued to support software.
- Continued to support the planning efforts for system and process design to migrate NSSDC data to the next generation of media.

Work Element 423

April 2002

Request Coordination and Services

PBC Work Element Manager – David Han

OBJECTIVE: to provide user support and request activities coordination for all data center services.

SIGNIFICANT EVENTS:

- The following user support was provided: e-mail referrals - 2; telephone - 15; scientific assistance - 11; e-mail support - 39; data services - 50; special projects - 19.
- A total of 2,412 shipments were made including 2 Federal Express shipments.
- We completed 2,360 requests for 2,366 Milky Way posters. There were no COBE posters shipped this month because we were waiting for tubes.
- Due to so many mail messages being extracted in February, there weren't any new messages extracted in the month of April. The first work day of April there were 13,224 un-read mail messages in the account and on the last day of the month there were 22,152. There was a total of 8,928 new messages received in April.
- We received three hardcopy survey cards. All were excellent. One said, "your customer service was excellent. The people I spoke with were very helpful. I appreciate their professionalism." One said "the staff was very helpful and the print was great."
- Marie was out on disability this month.
- Staff members continue to inventory all of the NSSDC photo archive data for the eventual creation of an Oracle database of all analog data.

Work Element 430

April 2002

NSSDC Data Ingest

PBC Work Element Manager – David Han

OBJECTIVE: to provide comprehensive information functionality related to availability of data, to all launched spacecraft and to many spaceborne experiments.

SIGNIFICANT EVENTS:

- Maintained and updated the NSSDC Master Catalog.
- Maintained and updated JRAND.
- Maintained and updated JEDS and IDA.
- Maintained AIM and TRF and made 110 updates to them.
- No problem reports about the databases were received this period.
- No FILEX report was required this period.
- No SATX report was required this period.
- Prepared and issued SPACEWARN report in a timely manner.

Work Element 440

April 2002

Computing Systems Operations

PBC Work Element Manager – David Han

OBJECTIVE: to provide systems analysis and technical support to the operational computer activities of the NSSDC.

SIGNIFICANT EVENTS:

- Continued to maintain existing hardware (servers, Macs, PCs and peripherals) and system-level software – VMS, unix, Mac-OS, Windows, and other operational packages -- to ensure the optimal performance and connectivity. The average availability of systems for April 2002 was 99.95%.
- Continued to integrate new hardware and system-level software into existing systems to achieve upgraded capabilities and state-of-the-art facilities.
- Maintained security of the systems to minimize security breaches. No security breaches were detected in this reporting period.
- Continued to administer specialized software such as data base and disk management systems.
- Continued to provide users with the necessary documentation, training, and assistance so that resources are fully utilized.